ELSEVIER

Forest Ecology and Management 212 (2005) 411–412

Forest Ecology and Management

www.elsevier.com/locate/foreco

Contents of *Forest Ecology and Management*, Volume 212

VOLUME 212, ISSUES 1–3 **1 JULY 2005**

Regular articles

Consequences of elevated CO_2 and O_3 on birch canopy structure: Implementation of a canopy growth model
O. Kull, I. Tulva (Tartu, Estonia and Tallinn, Estonia) and E. Vapaavuori (Suonenjoki, Finland) 1
Construction of site index equations for even aged stands of *Tectona grandis* (teak) from permanent plot data in India
A. Upadhyay, T. Eid and P.L. Sankhayan (Aas, Norway) 14
Tree and crop productivity in *Grevillea*, *Alnus* and *Paulownia*-based agroforestry systems in semi-arid Kenya
C.W. Muthuri, C.K. Ong (Nairobi, Kenya), C.R. Black (Loughborough, UK), V.W. Ngumi and B.M. Mati (Nairobi, Kenya) 23
Impact of nitrogen and phosphorus fertilization on drought responses in *Eucalyptus grandis* seedlings
C. Graciano, J.J. Guiamét and J.F. Goya (La Plata, Argentina) 40
Evaluating the use of remotely sensed data in matrix population modeling for eastern hemlock (*Tsuga canadensis* L.)
W. Robert Lamar and J.B. McGraw (Morgantown, WV, USA) 50
Regeneration of virginia pine (*Pinus virginiana*) following southern pine beetle (*Dendroctonus frontalis*) outbreak in the Sipsey Wilderness, Alabama
R. Scot Duncan and J.E. Linhoss (Birmingham, AL, USA) 65
Elevation, substrate, and the potential for climate-induced tree migration in the White Mountains, New Hampshire, USA
T.D. Lee, J.P. Barrett and B. Hartman (Durham, NH, USA) 75
Quantifying tree cover in the forest–grassland ecotone of British Columbia using crown delineation and pattern detection
Y. Bai (Saskatoon, Canada), N. Walsworth (Victoria, Canada), B. Roddan (Kamloops, Canada), D.A. Hill (Victoria, Canada), K. Broersma and D. Thompson (Kamloops, Canada) 92
Silver fir sapling bank in seminatural stand: Individuals architecture and vitality
T.H. Szymura (Wrocław, Poland) 101
Surveyor consistency in presence/absence sampling for monitoring vegetation in a boreal forest
A. Ringvall, H. Petersson, G. Ståhl and T. Lämås (Umeå, Sweden) 109
Short-term response of ground beetles (Coleoptera: Carabidae) to fire and logging in a spruce-dominated boreal landscape
M. Saint-Germain (Saint-Anne-de Bellevue, Canada and Montréal, Canada), M. Larrivée (Montréal, Canada and Ottawa, Canada), P. Drapeau (Montréal, Canada), L. Fahrig (Ottawa, Canada) and C.M. Buddle (Saint-Anne-de Bellevue, Canada) 118
Maritime forest habitat dynamics on Bulls Island, Cape Romain National Wildlife Refuge, SC, following Hurricane Hugo
W.H. Conner (Georgetown, SC, USA), W.D. Mixon, II (Social Circle, GA, USA) and G.W. Wood (Clemson, SC, USA) 127
The role of microtopography and substrate in survival and growth of Atlantic white-cedar seedlings
L.M. Gengarelly and T.D. Lee (Durham, NH, USA) 135
Changes in riparian woods over space and time: Influence of environment and land use
M.T. Ferreira, F.C. Aguiar and C. Nogueira (Lisbon, Portugal) 145
Quantitative floristics as a tool for the assessment of plant diversity in Tuscan forests
A. Chiarucci and I. Bonini (Siena, Italy) 160
Structural indicators of spider communities across the forest plantation cycle
A.G. Oxbrough, T. Gittings, J. O'Halloran, P.S. Giller (Cork, Ireland) and G.F. Smith (Dublin, Ireland) 171
Environmental gradients in the Turkwel riverine forest, Kenya: Hypotheses on dam-induced vegetation change
J. Stave (Oslo, Norway), G. Oba (Norway), N.C. Stenseth and I. Nordal (Oslo, Norway) 184

doi:10.1016/S0378-1127(05)00364-6

The effect of experimental prescribed fire on the establishment of Scots pine *Pinus sylvestris* seedlings on heather *Calluna vulgaris* moorland
M. Hancock, S. Egan, R. Summers, N. Cowie, A. Amphlett, S. Rao and A. Hamilton (Inverness, UK) 199
Effects of stand conversion by thinning and underplanting on water and element fluxes of a pine ecosystem (*P. sylvestris* L.) on lignite mine spoil
D. Knoche (Finsterwalde, Germany) 214
Holm-oak (*Quercus ilex* subsp. *Ballota*) acorns infestation by insects in Mediterranean dehesas and shrublands. Its effect on acorn germination and seedling emergence
M.J. Leiva and R. Fernández-Alés (Sevilla, Spain) 221
Simulated seasonal changes of CO_2 and H_2O exchange at the top canopies of two *Fagus* trees in a winter-deciduous forest, Japan
A. Uemura, A. Ishida and Y. Matsumoto (Ibaraki, Japan) 230
Productivity and suitability analysis of social forestry woodlot species in Dhaka Forest Division, Bangladesh
Md. Enamul Kabir and E.L. Webb (Pathum Thani, Thailand) 243
Structural pattern of a near-natural beech forest (*Fagus sylvatica*) (Serrahn, North-east Germany)
G. von Oheimb, C. Westphal, H. Tempel and W. Härdtle (Lüneburg, Germany) 253
Fine root biomass, production and its proportion of NPP in a fertile middle-aged Norway spruce forest: Comparison of soil core and ingrowth core methods
I. Ostonen (Vanemuise, Estonia and Lai, Estonia), K. Lõhmus and K. Pajuste (Vanemuise, Estonia) 264
Growth and substrate quality of fine root and soil nitrogen availability in a young *Betula ermanii* forest of northern Japan: Effects of the removal of understory dwarf bamboo (*Sasa kurilensis*)
S.K. Tripathi (Varanasi, India and Sapporo, Japan), A. Sumida (Sapporo, Japan), H. Shibata, S. Uemura (Nayoro, Japan), K. Ono and T. Hara (Sapporo, Japan) 278
Photosynthetic performances of *Quercus pannosa* vary with altitude in the Hengduan Mountains, southwest China
S.-B. Zhang (Kunming, China and Beijing, China), Z.-K. Zhou, H. Hu, K. Xu, N. Yan and S.-Y. Li (Kunming, China) 291
Effects of artificial shading and weed mowing in reforestation of Mediterranean abandoned cropland with contrasting *Quercus* species
J.M. Rey Benayas, J. Navarro, T. Espigares, J.M. Nicolau and M.A. Zavala (Alcalá de Henares, Spain) 302
Short-term effects of controlled burning and green-tree retention on beetle (Coleoptera) assemblages in managed boreal forests
E. Hyvärinen, J. Kouki, P. Martikainen and H. Lappalainen (Joensuu, Finland) 315
Reinforcement capacity of potential buffer zones: Forest structure and conservation values around forest reserves in southern Sweden
M. Thorell and F. Götmark (Göteborg, Sweden) 333
Reducing forest fragmentation in long-term forest planning by using the shape index
K. Öhman and T. Lämås (Umeå, Sweden) 346
Natural regeneration in exotic tree plantations in Hong Kong, China
E.W.S. Lee, B.C.H. Hau and R.T. Corlett (Hong Kong, China) 358
Seedling growth of *Acacia tortilis* and *Faidherbia albida* in response to simulated groundwater tables
J. Stave (Oslo, Norway), G. Oba (Ås, Norway), A.B. Eriksen, I. Nordal and N.Chr. Stenseth (Oslo, Norway) 367
The response of epiphytes to anthropogenic disturbance of pine-oak forests in the highlands of Chiapas, Mexico
J.H.D. Wolf (Amsterdam, The Netherlands) 376
Influence of *Colophospermum mopane* on surface soil properties and understorey vegetation in a southern African savanna
D. Mlambo, P. Nyathi (Bulawayo, Zimbabwe) and I. Mapaure (Windhoek, Namibia) 394
Genetic gain and diversity under different thinning scenarios in a breeding seed orchard of *Quercus accutissima*
K.-S. Kang (Kyonggi, Republic of Korea), Y.A. El-Kassaby (Vancouver, Canada), S.-U. Han and C.-S. Kim (Kyonggi, Republic of Korea) 405

Contents of *Forest Ecology and Management*, Volume 212 411